

APPROVED BY: K. V. Tolokovskiy, V. N. Khavinson, N. V. S. Likhacheva, I. A. [unclear] NOV-19/27

TOPIC: Liquid-Vapor Equilibrium in the Benzene-Methanol System at High Pressures (Benzene-methanol without water at some limited mixture per cent (approximately 10 percent))

COUNTRY: Statement of the following method. Author: V. N. Khavinson (by the present author)

ABSTRACT: The limiting curves of the liquid-vapor equilibrium in the system of benzene-methanol at various compositions and temperatures from 150° C up to the critical temperature were investigated by means of the method of soldered ampules. The volumes of the benzene-methanol-system were measured at the limiting curves of the liquid-vapor-equilibrium. The investigated mixtures contained 16.7, 34.9, 50.6, 63.4 and 83.1 percentage by weight of benzene. The critical temperatures and volume-values were found for each of these mixtures and the critical t-x- and v-t curves were drawn. v - is the molar volume of the mixture of a given composition, x - benzene content in percentage by weight. The critical t-x-curve has a minimum which is observed with systems with steadily boiling mixtures under maximum vapor-pressure. These systems usually have such a minimum at the vapor-phase-line of the v-x-limiting curves. It is shown that the limiting curves occupy the whole range of the composition of the mixture at temper-

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Liquid-Vapor-Equilibrium in the Benzene-Methanol-System  
at High Pressures

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tures below the temperature of the minimum at the critical curve (238.5) and that with all temperatures for which diagrams were plotted, they have minima at the vapor-phase-line. At temperatures above the temperature-minimum at the critical curve, the limiting curves embrace only a part of the compositions adjacent to the axis of pure benzene and show critical points. It is shown that in the v-x-diagram for the benzene-methanol-diagram at 240° C (critical temperature of methanol) only one field of the heterogeneous equilibrium was determined, instead of the two expected. In the case of a further increase of temperature, this field embraces the reducing interval of composition. The minima at the vapor-phase-line of the v-x-limiting curves indicate the presence of azeotropes in the system. The composition of the minimum coincides with that below the maximum vapor pressure only then, if and when the vapor phase follows the law of Raoult's ideal process. It was assumed that the concentration surfaces follow Raoult's law and marked the azeotropes by the intersection of the two partial pressure curves. The solution of the equations of the azeotropes in the case of Raoult's law gives the following results:

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the boiling temperature of the azeotrope on its composition were drawn upon these bases. At a benzene content of 17 percentages by weight, and 238.5° C the t-x-curve of the azeotrope attains the critical t-x-curve immediately in the proximity of the minimum point. The data P-v-t for the benzene-methanol-system in reference 1, and the here obtained data for computing the pressures at equilibrium for three mixture-compositions were applied and the critical P-x- and P-t-curves were drawn. The P-v-limiting curves for the three mixtures were constructed from the here obtained data for the volumes of the phases with the investigated system at the limiting curve at various temperatures and compositions, as well as according to the data of reference 1. (Mixtures with 54.9, 70.9 and 83.0 percentage by weight of benzene at 150°, 200°, 250° and 300° C). The critical P-t-curve was drawn according to the values for the critical parameters of pure benzene, methanol, and the three mixtures, as well as according to the data on the temperature-minimum at the critical curve for this system. This curve differs from those described in the references 8 and 9. It is shown that with the benzene-methanol-system the relation set up there is not observed: the component with

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SUBMITTED: September 17, 1956

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Card 4/4

**AUTHORS:**

Krichevskiy, I. R., Khazanova, N. Ye., 20-119-5-37/59  
Linshits, L. R.

**TITLE:**

Diffusion Within the Critical Range of Ternary Solutions  
(Diffuziya v kriticheskoy oblasti troynykh rastvorov)

**PERIODICAL:**

Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 5,  
pp. 975-977 (USSR)

**ABSTRACT:**

The aim of the present work is restricted to the solution of the main problem, namely the clear determination of the problem, whether a noticeable enrichment of the solution with the third component occurs (playing the part of a small addition to the binary system) in the critical range because of molecular diffusion. The investigation of this diffusion in ternary solutions was for

example the ternary mixture is always carried out with solutions of the same ratio butylamine: triethylamine (about  $\sim$  1:14), and always at the same temperature of 18°C. In order to reach exact results a great gradient of the concentrations of the diffusing component was selected for the investigations. The following can be seen from the data mentioned in 2 tables: The diffusion coefficient of the butylamine is of the same order within the critical range and in diluted solutions. The little smaller value of the diffusion coefficient in diluted solutions is explained by their small viscosity as compared to concentrated solutions. Thus the diffusion velocity of butylamine does not decrease within the critical range while the diffusion velocity of triethylamine within this range strongly decreases. However, diluted solutions the diffusion coefficient of triethylamine has the same order as the diffusion coefficient of butylamine. According to the theoretical conditions the system was enriched with butylamine. The ratio butylamine: 1 : 6,

Diffusion Within the Critical Range of Ternary  
Solutions

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while in the original mixture it was 1 : 14. Thus the first investigation of the diffusion velocity within the critical range of ternary solutions shows, in agreement with theory, the possibility of the enrichment of the solution with the third component by molecular diffusion. There are 2 tables and 4 references, 3 of which are Soviet.

**ABSTRACT:** Оценка распределения концентрации в трехкомпонентной смеси вблизи критической концентрации.  
(Института Рентгено-Радиационных и Радиоактивных Исследований)

**PUBLISHED:** December 24, 1957, by A. N. Ponomarenko, Member, Academy of Sciences, USSR

**DISTRIBUTED:** December 24, 1957

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5 '(4)

AUTHORS: Krichevskiy, I. R., Khazanova, N. Ye., Tsekhan'skaya, Yu. V., Linshits, L. R. SCV/76-33 7-7/40

TITLE: Critical Phenomena in the System Hexamethylene Imine - Water.  
I. Equilibrium Limiting Curve of Liquid - Liquid Near the Critical Point

PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, № 7, pp 1484 - 1491  
(USSR)

ABSTRACT: From the data of the classical theory on the critical phenomena new thermodynamic relations can be obtained (Refs 1-3) which combine the course of the limiting curve (LC) near the critical point (CP) with the jumps of the derivatives of some properties during the transition of the system from the homogeneous to the heterogeneous state. In previous papers (Refs 4-8) it was found for two systems by the method of the jump of the derivative  $(\partial v / \partial t)_{p,x}$  of the course of the (LC) near the critical point that the limiting curves of these systems are second-degree parabolas. In continuation of these investigations the authors analyzed the system hexamethylene imine (I) - water (II). They investigated the course of the (LC) (Fig 1, Table 1) near the

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Critical Phenomena in the System Hexamethylene  
Imine - Water. I. Equilibrium Limiting Curve of  
Liquid - Liquid Near the Critical Point

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(CP), the partial and total vapor pressure, the specific weight, the refractive index, the viscosity, and the diffusion coefficients within the wide range of temperature and composition. Investigations were carried out near the lower (CP) at 66.9°C and 22.5 wt% (I) by means of a gravimetric dilatometer (Refs 11-14) (Fig 1) which was contained in a thermostat. The authors investigated six systems with a hexamethylene imine content of 13.7, 20.1, 24.32, 27.6, 31.4, and 35.6 wt% at various temperatures (Table 2). On the basis of the results of the specific volumes, volume-temperature curves were plotted, and herefrom the authors calculated the derivatives  $(\partial v/\partial t)_{P,x}$  on the (LC) for the heterogeneous and the homogeneous range as well as the jumps of the derivatives at the point of intersection of the (LC). Results showed that the jump of the derivative  $(\partial v/\partial t)_{P,x}$  attains a limit in the critical point, and thus the (LC) is a second-degree parabola near the (CP). In (Refs 18-20), the jumps of  $c_{P,x}$  and  $(\partial v/\partial t)_{P,x}$  of some binary solutions and

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the jumps of  $c_v$  of several pure substances were investigated, and it was found that these jumps always attain limits in the (CP). It is therefore assumed that the (LC) of the liquid - liquid and of the liquid - vapor in the systems under investigation is a second-degree parabola near the (CP). There are 5 figures, 2 tables, and 21 references, 14 of which are Soviet.

ASSOCIATION: Gosudarstvennyy institut azotnoy promyshlennosti (State Institute for Nitrogen Industry)

SUBMITTED: September 11, 1957

Card 3/3

5(4)

SOV/76-33-3-24/33

AUTHORS: Khazanova, N. Ye., Linshits, L. R. (Moscow)

TITLE: Critical Phenomena in the System Hexamethylenimine - Water.  
II. Some Physicochemical Properties of the System Hexamethylenimine - Water

PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 8, pp 1811-1812  
(USSR)

ABSTRACT: In the course of the investigations of the critical phenomena in the system hexamethylenimine (I) - water (II) it became necessary to determine a series of physicochemical properties of this system as well. The specific weight of the system (I) - (II) was determined for compositions of 4 - 44% by weight of (I) at temperatures between 13 and 65°C (Table 1). The measurements were made with a double capillary pycnometer, the meniscus readings were taken by means of a cathetometer. The viscosities of the system (I) - (II) were measured by means of a Heppler viscosimeter for temperatures between 0 and 66°C (Table 2). The refractive index was measured by a refractometer RLU for temperatures ranging from 10 to 50°C (Table 3). There are 3 tables and 2 Soviet

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SOV/76-33 8-24/32

Critical Phenomena in the System Hexamethylenimine - Water. II. Some  
Physicochemical Properties of the System Hexamethylenimine - Water

references.

SUBMITTED: February 7, 1958

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S/170/60/003/010/020/023X  
B019/B054

AUTHORS: Krichevskiy, I. R., Khazanova, N. Ye., Linshits, L. R.

TITLE: Diffusion of Gases Near the Critical Point

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 10,  
pp. 117-118

TEXT: In the introduction, the authors point out that it is very difficult to investigate the molecular diffusion of gases near the critical point. They observed visually the diffusion of iodine in carbon dioxide. Iodine pressed into tablets and carbon dioxide were introduced into thick-walled glass ampoules. The diffusion of iodine in carbon dioxide causes a discoloration of carbon dioxide, and thus the diffusion of iodine in liquid and gaseous carbon dioxide was investigated. In this way, a diffusion coefficient of  $1 \cdot 10^{-5} \text{ cm}^2/\text{sec}$  at  $20^\circ\text{C}$  was determined in liquid carbonic acid. From the results obtained, the authors conclude that the diffusion coefficient near the critical point is smaller than  $1 \cdot 10^{-6} \text{ cm}^2/\text{sec}$ , and that the diffusion coefficient near the critical

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Diffusion of Gases Near the Critical Point

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B019/B054

point is reduced by at least three orders of magnitude. There are 4 references: 2 Soviet and 2 Scandinavian.

ASSOCIATION: Gosudarstvennyy institut azotnoy promyshlennosti,  
g. Moskva  
(State Institute of the Nitrogen Industry, Moscow)

SUBMITTED: April 18, 1960

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Card 2/2

KRICHEVSKIY, I.R.; KHAZANOVA, N.Ye.; LINSHITS, L.R.

Critical phenomena in the system hexamethylene - water. Part 5:  
Partial pressures of the components. Zhur.fiz.khim. 34 no.9:  
1920-1927 S '60. (MIRA 13:9)

1. Gosudarstvennyy institut azotnoy promyshlennosti, Moskva.  
(Hexamethylenimine) (Critical point)

LINSHTS, L. I.

30

PHASE I BOOK EXPLOITATION SOV/5469

Soveshchaniye po kriticheskim yavleniyam i flyuktuatsiyam v rastvorakh. Moscow, 1960.

Kriticheskiye yavleniya i flyuktuatsii v rastvorakh; trudy soveshchaniya, yanvar' 1960 g. (Critical Phenomena and Fluctuations in Solutions; Transactions of the Conference, January 1960) Moscow, Izd-vo AN SSSR, 1960. 190 p. 2,500 copies printed.

Sponsoring Agencies: Akademiya nauk SSSR. Otdeleniye khimicheskikh nauk. Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova. Khimicheskiy fakul'tet.

Responsible Ed.: M. I. Shakhparonov, Doctor of Chemical Sciences, Professor; Ed. of Publishing House: E. S. Dragunov; Tech. Ed.: S. G. Tikhomirova.

PURPOSE : This collection of articles is intended for scientific personnel concerned with chemistry, physics, and heat power engineering.

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## Critical Phenomena and Fluctuations

SOV/5469

COVERAGE: The book contains 24 of the 26 reports read at the Conference on Critical Phenomena and Fluctuations in Solutions organized by the Chemical Division of Moscow State University, January 26-28, 1960. The reports contain results of investigations carried out in recent years by Soviet physicists, chemists, and heat power engineers. The Organizing Committee of the Conference was composed of Professor Kh. I. Amirkhanov, A. Z. Golik, I. R. Krichevskiy (Chairman), V. K. Semenchenko, A. V. Storonkin, I. Z. Fisher, and M. I. Shakhparonov (Deputy Chairman). References accompany individual articles.

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JP/dfk/jw  
10-28-61

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Moscow, USSR, 5-10 June 61.

NY-252  
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- 207. P. I. Pavlenko, Generalization of the Nernst and Pollaczek Criteria at High Pressure in Terms of the Restorative Effect of Non-Equilibrium Processes
- 208. I. R. Serezhkin, V. E. Shavchenko, On the Point of Liquidation of Liquids
- 209. V. I. Tolubinsky, The Rate of Viscous Flow of Polymers at High Pressure
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KRICHEVSKIY, I.R.; KHAZANOVA, N.Ye.; LINSHTS, L.R.

Iodine diffusion in compressed carbon dioxide near the critical point. Dokl. AN SSSR 141 no.2:397-399 N '61. (MIRA 14:11)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza.  
Predstavлено академиком С.И.Вол'фовичем.  
(Iodine) (Carbon dioxide)

S/862/62/002/000/015/029  
A059/A126

AUTHORS: Krichevskiy, I.R., Khazanova, N.Ye., Linshits, L.R.

TITLE: Diffusion in gases near the critical point of the liquid-vapor equilibrium

SOURCE: Teplo- i massoperenos. t. 2: Teplo- i massoperenos pri fazovykh i khimicheskikh prevrashcheniyakh. Ed. by A.V. Lykov and B.M. Smol'skiy. Minsk, Izd-vo AN BSSR, 1962. 132 - 135

TEXT: The diffusion in very diluted solutions near the critical point has been experimentally examined on the iodine-carbon dioxide system. It could be assumed that, due to the low solubility of iodine in CO<sub>2</sub>, the critical parameters of the binary system will be close to those of pure CO<sub>2</sub>, i.e.,  $t_c = 31.06^\circ\text{C}$ ,  $p_c = 72.9$  atm, and  $\rho_c = 0.467 \text{ g/cm}^3$ . The method used was based on the direct visual observation of the colored layer (brown in gaseous CO<sub>2</sub> and violet in liquid CO<sub>2</sub>) containing iodine the velocity of motion of which was measured and the intensity compared with the standard. The error of the visual observation was 1.5 - 2 mm. Constant temperature was maintained with an accuracy of  $\pm 0.02^\circ\text{C}$ .

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Diffusion in gases near the critical point of ....

Purified and dried CO<sub>2</sub> containing less than 0.1% of impurities was used in the experiments. The measured coefficient of diffusion in liquid CO<sub>2</sub> was  $1.5 \cdot 10^{-5}$  cm<sup>2</sup> · sec<sup>-1</sup>. The coefficient of diffusion D was calculated from the equations:

$$D = l^2/2t, \quad (1)$$

given by A. Einstein (Sbornik stately, ONTI, 1936), where l is the length of displacement and t the time of diffusion. The minimum values of the coefficient of diffusion which can be determined in this way were of the order of  $1 \cdot 10^{-7}$  cm<sup>2</sup> · sec<sup>-1</sup>. The diffusion of iodine in compressed CO<sub>2</sub> was studied at 31.5°C and various densities, above and beneath critical density. If the density is increased, the coefficient of diffusion of iodine initially diminishes to zero near the critical point (at 31.5°C, pressures of 73.0 and 73.6 atm, and densities of 0.385 and 0.429 g/cm<sup>3</sup>), and then increases when the density is further increased. The measurement of the rate of diffusion at 40°C and a density near to the critical one showed that the influence of the critical point has but little effect, the coefficient of diffusion being almost the same as with ordinary compressed gases. Using the above method, the interruption of diffusion in the neighborhood of the critical point can be directly observed. The same is due to hold also for the Brownian motion at the critical point. L.A. Rott is mentioned.

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Diffusion in gases near the critical point of ....

S/862/62/002/000/015/029

A059/A126

There are 3 figures and 1 table.

ASSOCIATION: Gosudarstvennyy institut azotnoy promyshlennosti, g. Moskva (State Institute of the Nitrogen Industry, City of Moscow)

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"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010018-9

KHAZANOVA, N.Ye.; LINSHITS, L.R.

Diffusion of hydrogen in cyclohexane at elevated pressure.  
Khim. prom. no.8:579-782 Ag '63. (MIRA 16:12)

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CIA-RDP86-00513R000930010018-9"

Information, Inc.

Polyzyn, Anatoli

New species of Lower Permian Tremostomata in the northern Urals.  
Trudy NOIP.Otd.geol., 1, 1951.

MONTHLY LIST OF RUSSIAN ACCESSIONS. Library of Congress, June 1952. UNCLASSIFIED.

Linskaya, A.I.

0852/Microbiology - Microorganisms Pathogenic to  
Humans and Animals F-3

Abz Jour: Ref Zhur - Biol., No 18, 1958, 81571

Author: Verkho, K.P.; Plotneva, G.O.; Blinchen, A.L.;  
Vishnevskaya, N.Ya.; Korneyeva, G.A.; Linskaya,  
A.I.; Shre, I. Ya.; Tsabotash, G.P.

Inst:

Title: Vaccination Against Tuberculosis of Children  
and Adolescents Having a Positive Reaction to  
Intra-Dermal Injection of Tubercolin.

Orig Pub: Vopr. ohhrnye i zashchitn. i detstva, 1957, 2,  
No. 6, 60-63

Abstract: No abstract.

Card 1/1

POCHEKUTOV, S.P., assistent; LINSKAYA, E.I., studentka V kursa

Effect of physical and mechanical properties and moisture  
of wood on the power indices during sawing with band saws.  
Trudy STI 34:109-112 '63. (MIRA 17:2)

LINSKAYA, L. Ye. Cand Med Sci -- (diss) "Effectiveness of the combined treatment of tuberculosis patients with streptomycin and tibone or PASK, taking into account the resistance to streptomycin of tuberculous micobacteria." Odessa, 1959. 16 pp (Odessa State Med Inst im N. I. Pirogov), 200 copies (KL, 49-59, 143)

TENSIKAYA, Li.Ye., kand. med. nauk

Stolichnyj lekarj nauchno-issledovatel'skogo instituta po boleznyam truda i professional'nykh zabolevaniy.

Uchebnyj doklad o rezul'tatih issledovaniy po bolezni truda  
(truda) u lits s prirodnymi i prirodobystvuyushchimi genneticheskimi  
truda i professional'nykh zabolеваний.

LINSKIS, D.Ya.

Changes in the cardiovascular function of Bukhara school children during the school day. Med.zhur.Uzb. no.12:82-87 D '58.  
(MIRA 13:7)

1. Zaveduyushchiy ambulatoriyey Bukharskogo pedagogicheskogo  
instituta.  
(BUKHARA--SCHOOL CHILDREN) (CARDIOVASCULAR SYSTEM)

LINSKIS, D.Ya.

Dynamics of changes in vital capacity and muscular strength in  
Bukhara students. Gig. i san. 24 no.7:78-80 J1 '59.  
(MIRA 12:9)

1. Iz kafedry gigiyeny detey i podrostkov Tashkentskogo  
meditsinskogo instituta.

(SCHOOL HEALTH, statist.

musc. strength & vital capacity in students.  
of subtropical region (Rus))

(MUSCLES, physiol.

musc. strength in students of subtropical  
region (Rus))

(RESPIRATION, physiol.

vital capacity in students of subtropical  
region (Rus))

LINSKIS, D. Ya, Cand Med Sci — (diss) "Physiological changes of  
the functional state of an organ of Bukhar students to the strain  
of the school training day," Tashkent-Bukhara, 1960, 22 pp, 350 cop.  
(Taskent State Medical Institute) (KL, 45-60, 128)

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010018-9

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CIA-RDP86-00513R000930010018-9"

Foot measuring technique. Arkh. sanats., glist. 1 god. 1964, No. 11  
91-92 Mr '64.

(MIRA 17:12)

1. Anatomo-fiziologicheskaya laboratoriya Bukharskogo pedagogicheskogo instituta.

"APPROVED FOR RELEASE: 07/12/2001

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ELIMINATE, MOVE, or DESTROY - DO NOT KEEP

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010018-9"

LINSKIY, V.P.

Developing conditioned reflexes in Korsakoff's syndrome. Zhur.vys.  
nerv.deiat. 4 no.6:791-798 N-D '54. (MLRA 8:7)

1. Kafedra psichiatrii Khar'kovskogo meditsinskogo instituta i  
Ukrainskogo psichonevrologicheskogo instituta.

(PSYCHOSIS, ALCOHOLIC,

Korsakoff's synd., prod. of conditioned reflexes in)

(REFLEX, CONDITIONED,

in Korsakoff's synd., prod. technic)

LINDVIK, V.P., Sov. Acad. Sci.--(diss.) "On the state of carbon in  
catalyzed and conditioned r fibers in polyisobutylene in a static and  
dynamic state." Khar'kov, 1968. 17 pp (Khar'kov State Inst. Inst.),  
200 copies (U.S.-88, 107)

*Линский, В.С.*  
LINSKIY, V.S.

Calculating elementary functions by means of automatic computing  
machines. Vych.mat. no.2:90-119 '57. (MIRA 10:12)  
(Functions) (Calculating machines)

AUTHOR: Blashkevich

TITLE: On the Choice of the Optimum Number of Addresses in a Digital Computer

PERIODICAL: V sb.: Vopr. teorii matem. mashin. I, Moscow, Fizmatgiz, 1958,  
pp. 181-191

TEXT: The rational choice of the number of addresses in a digital computer is analyzed in detail. The analysis gives the following results. The complexity of programming does not depend on the number of addresses in a command. One-address machines are simpler than two- and three-address machines. Micro-programming is simpler in one-address machines. From a comparison of machines with a high-speed storage unit in relation to a) the efficiency of using the addresses in a command; b) the matching of the length of a command and the number; c) the storage capacity; d) the speed of computations; e) the convenience of programming; f) the complexity of design, the following conclusions can be drawn.

Card 1/2

\$35.00 3/112/59/000/015/054/068  
A052/A002

## On the Choice of the Optimum Number of Addresses in a Digital Computer

三一七

**Translator's note:** This is the full translation of the original Russian abstract.

Card 2/2

LINDSTROM, V. E.

1997-00/NS/H/15/1997-00/NS/H/15/15

## METHODS OF GP EDITING IN THE DESIGN OF DIGITAL COMPUTERS

I: Y. AFUSIMSKY, L. B. YEMELYANOV-YATOSLAVSKIY, E. A. KLIYATKO,  
V. I. LINCHY, S. D. NIKAMHOV

Institute for Scientific Research of Electronic  
Mathematical Machines, Moscow, USSR

In the paper are considered different methods of speeding-up operations in digital computers.

Methods of accelerating the digit by digit multiplication by overlapping in time the operations of addition and shift; the method of the "travelling wave" when the addition of several partial products is effected simultaneously, etc.

For speeding-up the division operation a method is recommended by which the information contained in the code of the next remainder is used for determining, in one step the group of the quotient consecutive digits.

Are considered the advantages, from the point of view of operation speeding-up, of storage of codes in not normalized condition and representation of negative numbers in the machine in reverse code (with introduction of code feature). Combined methods of calculation of certain algebraic expressions in the conditions of an arithmetic device with an increased number of components.

Methods are described for speeding-up the addition elementary operation, which ensures single-precision operation of each component of the odd element, as well as the methods of speeding up the conversion by means of a special shifter designed in the form of a ferromagnetic core.

Considerations are given on the expediency of including the elongations of the volume of elongating function. In the first of such studies reported, and reported by the author, even (still) were suitable for the first moments of the

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INTERNATIONAL CONF. ON INFORMATION PROCESSING  
MENKO HOUSE, PARIS  
15-20 June 1959

BRIKALIY, G.I.; LINSKIY, V.S.

Constituent program for a one-address machine. Vop. teor. mat.  
mash. no.2:144-155 '62. (MIRA 15:8)  
(Programming (Electronic computers)) (Electronic calculating machines)

LINSKIY, V.S.; SHREYDER, Yu. A., kand. fiz.-matem. nauk, otdv-red.;  
ORLOVA, I.A., red.; KORKINA, A.I., tekhn. red.

[Algorithmic design of digital computer devices.] Algoritmi-  
cheskoe proektirovanie vychislitel'nykh tsifrovых ustroistv.  
Moskva, Vychislitel'nyi tsentr AN SSSR, 1963. 132 p. (Akademija  
nauk SSSR. Vychislitel'nyi tsentr. Soobshchenija po vychislitel'-  
noi tekhnike, no.2).  
(MIRA 16:11)

MARTYNOV, L.S., prof. doktor. tekhn. nauk; RATNER, G.S.; LAZARENKO, V.M.,  
kand. tekhn. nauk, dotsent; LINSKIY, V.V.; DALIDOVICH, A.S.,  
prof., doktor tekhn. nauk

Problems in the analysis of the process of loop formation.  
Tekst. prom. 25 no.4:72-81 Ap '65. (MIRA 18:5)

1. Leningradskiy institut tekstil'noy i legkoy promyshlennosti  
imeni S.M. Kirova (for Martynov). 2. Glavnyy inzh. trikotazhnoy  
fabriki "Krasnoye znamya" Soveta narodnogo khozyaystva Leningrad-  
skogo ekonomiceskogo rayona (for Ratner). 3. Leningradskiy institut  
tekstil'noy i legkoy promyshlennosti imeni S.M. Kirova (for  
Lazarenko). 4. Vedushchiy konstruktor Spetsial'nogo konstruktor-  
skogo byuro trikotazhnykh mashin (for Linskiy). 5. Moskovskiy  
tekstil'nyy institut (for Dalidovich).

LINT, G. E.

KOCHETOV, G.T., inzh.; LINT, G.E., inzh.; NAGORNYY, Yu.M., inzh.

Improving the starting schemes and completing the resynchronization  
of synchronous motors of river-bank pump-type heat and power stations  
(TNTs). Minsk, 28 May 1985 (MIR) (MIRA 10-11)  
(MIR-85-10-11)

LINT, G.E., inzh.; RINDZYUNSKIY, Ye.M., inzh.

Failure redundancy of 110-500 kv. switches. Elek. sta.  
35 no. 3:67-69 Mr '64. (MERA 17:6)

LINTES, ION

Lintes, Ion. Sur la distribution des nombres premiers.

Anal. Roum. Bull. Sect. Sci. 26, 83-88 (1946).

This contains a number of assertions concerning the distribution of the primes, with "proofs" which are entirely fallacious.

H. Duxenport (London).

*Small*  
*page*

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010018-9

LIMPO, L.; RODRIGUEZ, J.

CONFIDENTIAL - SECURITY INFORMATION

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CIA-RDP86-00513R000930010018-9"

LINTNER, Ladislav (Praha 12, Srobarova 50.)

Cooperation of the laryngologist & actinotherapist in treatment of carcinoma of the larynx; the Unger & Hlavacek 2 possibilities - method. Cas. lek. cesk. 97 no.31-32:1003-1004 8 Aug 58.

1. Oddeleni pro lechu zarenim Fakultni nemocnice v Praze 12, prednosta MUDr. Emil Ungar.

(LARYNX, neoplasms

actinother. (Cz))

(PHOTOTHERAPY, in various dis.

cancer of larynx, actinother. (Cz))

AUGUSTIN, J., MUDr. (Nove Zamky, Obvodni ustav narodniho zdravi); LINTNER, J.

Smears from curetted endometrium as a diagnostic aid in gynecological bleedings. Cesk. gynek. 44 no.3:171-174 Ap'65.

1. Gyn.-por. Odd. Obvodniho ustavu narodniho zdravi v Novych  
Zamkoch (veduci: MUDr. J. Augustin).

Complex therapy of cervical and vaginal parts of the uterus in a university hospital, Prague 12. Cas. lek. cesk. 98 no.8:243-245  
20 Feb 59.

1. Por. gyn. klinika LF v Praze 12, prednosta doc. dr. J. Pádovec.  
Oddelení pro lečbu žarením, fakultní nemocnice v Praze 12, prednosta prim.  
dr. M. Ungar. J. P., Praha 12, Šrobárova 50.  
(UTERUS NEOPLASMS, therapy,  
complex ther., hosp. statist. (Cz))

BENES, J.; LINTNER, L.

Possibilities of chemical dosimetry in clinical practice.  
I. Estimation of relative deep doses. Cesk. rentgen. 18 no. 2:  
126-132 Mr. '64.

1. Onkologicke oddeleni fakultni nemocnice v Praze 10.

LINTNER, L.; VABOJOVA, E.

Our experience with the actinotherapy of malignant tumors of  
the nasopharynx. Cesk. radiol. 20 no.1:53-59 Ja '69.

1. Onkologicke oddeleni fakultni nemocnice v Praze 10.

LINTS, V., inzh. (Moskva); TASLITSKIY, M. (Moskva); DMITRIYEV, D., inzh.  
(Moskva); LEVIN, S., inzh. (Moskva); KUZOVKIN, B. (Orenburg).

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Conceived - realized. Izobor. i rata. no.3:20-21 '63.

(MIRA 16:4)

1. Sotrudnik Gosudarstvennogo instituta po vnedreniyu peredovykh  
metodov rabot i truda v stroitel'stve Ministerstva stroitel'stva  
SSSR (for Taslitskiy). 2. Starshiy inzhener tresta "Orenburg-  
transstroy" (for Kuzovkin).

(Technological innovations)

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APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010018-9"

AUTHOR: Lints, V.f.

SCV-4-58-8-18/25

TITLE: Microphones in Mills (Mikrofony na mlechnitse)

PERIODICAL: Znaniye-zaitye, 1950, No. 10, p. 21 (URSS)

APPRAISER: This article discusses the development of microphones for use in milk processing plants. It describes the design and construction of various types of microphones used in different stages of the process, such as milking, pasteurization, and packaging. The article also mentions the advantages and disadvantages of each type of microphone.

SOV/28-59-1-15/29

AUTHORS: Rozanov, B. V., Candidate of Technical Sciences and  
Lints, V. P., Engineer

TITLE: Herringbone Sealings for Reciprocal Movements  
(Shevronnyye uplotneniya dlya vozvratno-postupatel'nogo  
dvizheniya)

PERIODICAL: Standartizatsiya, 1959, Nr 1, pp 43 - 44 (USSR)

ABSTRACT: The Committee of Standards, Measures and Measuring Devices approved the new standard "Rubber-Cloth Herringbone Sealings", for cups, pressure and supporting rings from rubberized tissue designed to secure the hermeticity of sealing of the reciprocal movements of plungers and pistons of hydraulic presses and other hydraulic installations working on water, emulsion or mineral oil at a pressure up to 500 kg/sq cm and at a temperature of -30 up to +70°C. There is 1 diagram.

ASSOCIATION: TsvNITMASH

Card 1/1

LINTS, V. inzh.

The soil does not need rest. Izobr.i rats. no.12:2-3 D '59.  
(MIRA 13:8)  
(Tillage)

LINTS, V. P inzh.

The most "delicate" part. Izobr.i rats. no.2:17-18 F '60.  
(Gaskets) (Hydraulic presses) (MIRA 13:8)

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010018-9

Wave-power electric stations. Znan.sila 35 no.4:15 Ap '60.  
(MIRA 13:8)

(Electric power) (Waves)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010018-9"

LINTS, V., inzh.

Can ocean waves be forced to work? Izobr.i rats. no.2:24-27 F '61.

(Turbines) (Water power)

(MIRA 14:2)

LINTS, V.P.; MEDVINSKIY, M.D.; RIPP, Ye.Kh.; CHEREDOV, S.V.

Equipment for the control of strain in the parts of a ~~hydraulic~~ press and calculation of the amount of its loading. Kuz.-shtam.  
proizv. 3 no.7:29-32 Jl '61. (MIRA 14:6)  
(Hydraulic presses) (Automatic control)

3/182/61/000/006/006/007  
D038/D112

AUTHORS: Rozanov, B.V., Lints, V.P.

TITLE: Automatic elimination of skew in the cross beam of hydraulic presses

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no. 6, 1961, 38-43

TEXT: A hydraulic system has been developed by VNIIIMETMASH in cooperation with NKMZ for maintaining the cross beams of heavy hydraulic stamping presses in a horizontal position under assymetrical loads. The maximum tilt of the cross beam is 0.17 mm/m when pressure force is 0.6 m off-center. The system principle is illustrated in a diagram (Fig. 2). It includes piston cylinders (1) placed in the press frame corners. The piston rods are connected with cross beam, and the top and bottom spaces of the cylinders are so interconnected that the top space of one cylinder is connected with the bottom space of the other. Thus the tilt of the cross beam causes a pressure difference within the cylinder spaces, and correspondingly a counter-acting moment. The cylinders are kept under a constant pressure of 160 kg/cm<sup>2</sup>. Steol (46.3% glycerin + 19.2% alcohol, the rest water and about 2% anticorrosive additions) is used as the work fluid. The steol has an elas-

Card 1/3

S/182/61/000/006/006/007  
D038/P112

Automatic calculation of know ...

the resultant force is displaced to the pressure center of the article being stamped. When a throttle valve completely closes a pressure pipeline, a valve (4) opens and relieves the work cylinder completely from pressure. The article includes the calculation system for a press with 3 work cylinders. The complete engineering calculations are given. It is stated that the system ensures high precision of stamped parts even at a considerable displacement of pressure center, and is recommended not only for hydraulic stamping presses, but for bending, forging and other presses. Engineers L.I. Yasakova, Ye.V. Bubenina and others took part in the experimental and calculation work. There are 4 figures, 3 tables, and 2 Soviet references.

Card 2/3

Automatic elimination of skew ...

S/182/61/000/006/005/007  
D038/D112

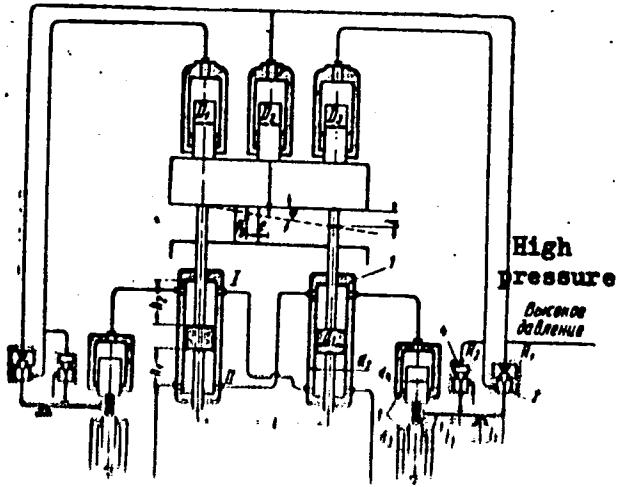


Fig. 10. The system for the automatic elimination of skew.

Card 5/5

Fig. 10. The system for the automatic elimination of skew.

ROZANOV, B.V.; LINTS, V.P.

Automatic correction of the warping of hydraulic forging press  
traverses. Kuz.-shtam. proizv. 3 no.6:38-43 Je '61.  
(MIRA 14:6)  
(Hydraulic presses—Maintenance and repair)

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no. 11, 1961, 32-35

TEXT: The article deals with investigations on high-power press installations, and theoretical research on press hydrodynamics used for the development of hydraulic systems of high-power stamping presses. The authors discuss hydraulic systems operating at several power stages. In these systems two groups of compensating cylinders are built into the press working cylinders. The compensating cylinders are fed by two independent main pipes. The hydraulic actuator of the press comprises two sections: one with a 200 kg/cm<sup>2</sup> pressure and another with 300 kg/cm<sup>2</sup> pressure, thus creating two power stages. It is stated that the new hydraulic system considerably reduces the pressure drop in the pipeline, the extent of hydraulic jump, and the degree of cavitation in the control system. One such hydraulic system recently developed was used in a multi-cylinder press in which the valves of the water distributor in the working cylinders were pressure controlled.

X

Card 1/2

Hydrodynamics and the system control ...

29375  
S/182/61/000/011/005/005  
D038/D113

TsNIITMASH conducted investigations on the cavitation stability of materials. The following steel grades were recommended for valve parts: ~~WX~~ 15 (ShKh15) and 9X (9Kh) tool steels; ~~9C~~8 (ESKh8) and ~~9C~~3 (EZh3) high-chromium steels, and ~~3R~~ 2 (EYa2) austenitic steel best suited for large valves. The investigations were supervised by G. I. Babushkin and M. G. Timerbutiatov. N. V. Zhirkovskiy is mentioned in connection with the measured equations of hydrodynamic jumps. The authors conclude that it was possible to increase the reliability of the investigated metal by adding various elements. The investigation was conducted at the Institute of Hydraulics.

Hydrodynamics and the system control ...

Hydrodynamics and the control system for powerful forging presses.  
Kuz.-shtam. protv. 3 no. 11:32-35 N 61. (MIRA iz-11)  
(Hydraulic presses) (Hydraulic control)

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CIA-RDP86-00513R000930010018-9

LINER, V.

REPORT OF THE COMMISSIONER OF SECURITY - POLITICAL AFFAIRS  
TO THE PRESIDENTIAL COUNCIL  
COMPARISON OF INFORMATION

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CIA-RDP86-00513R000930010018-9"

LINTS, V., inzh. (L.VILNIUS)

One of the most efficient systems. Izobr.i rats. no.3;2 Mr  
'62. (MIRA 15:2)

1. Spetsial'nyy korrespondent zhurnala "Izcbretatel' i  
ratsionalizator".

(Vilnius--Electric meters)  
(Automation)

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010018-9

Philip M. Gale

Office of CIO

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CIA-RDP86-00513R000930010018-9"

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010018-9

LINTS, V.P., inzh.; RYK, V.I.

Ultrasonic thickness gauge for checking stamped and pressed parts. Vest.mashinostr. 45 no.11:57-58 N '65.

(MIRA 18:12)

BOLSHTYANSKIY, M.P.; LINTSER, A.V.; SOKOLOV, Yu.V.

APPROVED FOR RELEASE: 07/12/2001 CIA RDP86-00513R000930010018-9"

Izv. SO AN SSSR no.10 ser. tekhn. nauk no.3:136-139

(MIRA 17:11)

1. Transportno-energeticheskiy institut Sibirskogo otdeleniya AN  
SSSR, Novosibirsk.

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010018-9

LINTSEVICH, A.V., inzh. (Novorossiysk); KONYAYEV, N.T., inzh. (Novorossiysk)

Assembly of cylindrical prestressed reinforced concrete tanks,  
street, Krutopryev, 7, no. 1314-19, Rostov-on-Don, Russia  
Circular cylindrical reinforced concrete tanks

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010018-9"

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010018-9

FIDLER, A.Z.; LINTSEVICH, A.V.

Assembling precast reinforced concrete reservoirs with tower  
cranes. Prom. stroi. 42 no. 5:43-44 '65. (MIRA 18:8)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010018-9"

S/076/60/034/009/025/041XX  
B020/B056

AUTHORS: Krichevskiy, I. R., Khazanova, N. Ye., and Linshits, L. R.

TITLE: Critical Phenomena in the System Hexamethylene Imine - Water.  
V. Partial Pressures of the Components

PERIODICAL: Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 9,  
pp. 1920 - 1927

TEXT: For the purpose of explaining the characteristics of the behavior of a substance in the critical point and the effect produced by these characteristics upon the behavior of a substance near the critical point, it is first necessary to determine the dependence of the chemical potential of the component upon the composition of the mixture in these regions. For the temperature dependence of the differentials of isothermal and isobaric lines upon the partial pressures of the components from the composition in the critical point of the binary solution the equations

$$\left[ \frac{\partial(\partial P_1)}{\partial T} \right]_{P, N_2, k} = \left[ (p_{1,k} N_{2,k}) / (RT_k^2) \right] \left[ \frac{\partial^2 H}{\partial N_2^2} \right]_{P, T, k} \quad (26) \text{ and}$$

Card 1/4

$$\left[ \left( \frac{\partial r_2}{\partial T} \right) \left( \frac{\partial r_2}{\partial n_2} \right)_{P,T} \right]_{P,N_2,k} = - \left[ \left( r_{2,k} n_{1,k} / R T_k \right) : \left( \frac{\partial n_1}{\partial n_2} \right) \right]_{P,T,k} \quad (27)$$

are derived, where  $k$  is the index of the critical phase. The partial pressures of the components in the critical range of the binary solution were investigated in the system hexamethylene imine - water with a lower critical point at  $68.1^\circ$  and 24.8 % by weight of hexamethylene imine (Ref. 5). The investigation was carried out by means of the dynamic method, where only the equilibrium composition of the liquid and of the vapor was determined. The total vapor pressure over the solutions was separately determined (Ref. 6). The equilibrium is established only slowly near the critical point of a binary system, and therefore particular care was taken in order that the saturators be used effectively. Helium was the carrier gas. A scheme of the arrangement is given in Fig. 1. The equilibrium in the system hexamethylene imine - water was measured in solutions with five different compositions at  $50.0$ ,  $62.1$ , and  $67.6^\circ$ . From the equilibrium compositions of the vapor- and liquid phases, the partial pressures of the components were determined (the partial pressures of hexamethylene imine

Card 2/4

Critical Phenomena in the System Hexamethylene Imine - Water. V. Partial Pressures of the Components S/076/60/034/009/025/041XX  
B020/B056

are given in Fig. 2). The proportionality of the partial pressure of the components with concentration holds only for diluted solutions (with 3 - 4% by weight of hexamethylene imine). At temperatures near critical one, the partial pressure of hexamethylene imine from a concentration of about 8% onward remains constant within a broad range of compositions. At 50°, the partial pressure within the range of this composition increases somewhat with concentration, but its dependence of composition remains very low, which fully corresponds to the conditions given in the thermodynamic equations (26) and (27). In solution concentrations near the critical one,

Card 3/4

$$\Delta H_{1, \text{ev}} = \Delta H_{2, \text{ev}} = \Delta H_{1, \text{k,sol}} = \Delta H_{2, \text{k,sol}}$$

Critical Phenomena in the System Hexamethylene Imine - Water. V. Partial Pressures of the Components S/076/60/034/009/025/041XX  
B020/B056

There are 3 figures, 1 table, and 9 references: 6 Soviet, 1 US, and 2 German.

ASSOCIATION: Gosudarstvennyy institut azotnoy promyshlennosti, Moskva  
(State Institute of the Nitrogen Industry, Moscow)

SUBMITTED: November 12, 1958

Card 4/4

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HEREIN IS UNCLASSIFIED

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CIA-RDP86-00513R000930010018-9"

LINTVAREV, B.A., prof. [deceased]

Selecting the most efficient speed for the operating movement of units.  
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V. LINTVAREV

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Q-6

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Inst : Not given

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1. Institut virusologii (dir.- deystvitel'nyy chlen AMN SSSR  
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1. Iz infektsionnogo otdela kafedry pediatrii TSentral'nogo instituta  
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1. Laboratoriya farmakologii (zav. - prof. M.Ya.Mikhel'son)  
Instituta evolyutsionnoy fiziologii imeni I.M.Schenova AN SSSR.  
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LENINOGORSK, V.I.P. - DANTRENDY, A.L.

CHIEF OF STAFF, POLITICAL DEPT.

COMBINED ARMS CENTER

1970

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